

1 **Education Cabinet**

2 **Kentucky Board of Education**

3 **Department of Education**

4 **(Emergency)**

5 **705 KAR 4:250E. Energy Technology Engineering Career Pathway.**

6 RELATES TO: KRS 158.808

7 STATUTORY AUTHORITY: KRS 156.070, 158.808

8 NECESSITY, FUNCTION, AND CONFORMITY: KRS 158.808 requires the Kentucky
9 Department of Education to establish an energy technology engineering career pathway.

10 This administrative regulation establishes a process for the Kentucky Board of Education
11 to administer the energy technology engineering career track program, approve grant
12 recipients, and distribute funds to local school districts.

13 Section 1. (1) “Career pathway” means a coherent, articulated sequence of rigorous
14 academic and career and technical courses, including dual credit opportunities, leading to
15 a postsecondary degree or industry-recognized certification or licensure, that is
16 developed, implemented and maintained in partnership with secondary and postsecondary
17 institutions, business and employers.

18 Section 2. Application Process. (1) A Kentucky public school district shall be eligible to
19 apply for a grant, **through a request for proposal process.**

20 (2) A local school district superintendent shall submit the application and have the

21 approval of participating schools’ school-based decision making councils, **and local**
22 **board of education.**

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(3) A grant application shall indicate the fiscal agent as a local board of education.

(4) To be eligible for funding, an applicant school shall provide an energy career pathway which includes the following components.

(a) The Project Lead the Way **middle school program** Gateway to Technology, with content to include energy-related activities and the following Project Lead the Way pre-engineering courses at the high school level:

1. Introduction to Engineering Design;

2. Principles of Engineering;

3. Digital Electronics;

4. A specialized course in Energy and Power Technology, or integration of energy-related content and applications in each of the Project Lead the way courses. The content shall include energy-related applications as developed by the Kentucky Department of Education, in consultation with representatives from the energy technology industry, the University of Kentucky Center for Applied Energy Research, the Council on Postsecondary Education, the Kentucky Community and Technical College System, **Governors Office of Energy Policy**, local school districts, and Project Lead the Way; and

5. Engineering Design and Development, with content to include energy-related research and applications;

(b) The opportunity for students to participate in energy related internships or cooperative education with energy-related industries or postsecondary education;

(c) Matching funds that shall be allocated to directly support the implementation of the program, which may include other state, federal, local, or nonpublic sources, within the uses and conditions set forth by the source of those funds. Previously awarded Project Lead the Way state grants and local matches shall not be considered as matching funds for this program;

(d) ~~Status as a~~ registered Project Lead The Way site prior to disbursement of funds;

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(e) **Submission of** seven (7) complete copies of the application **plus an electronic copy.**

Section 2. Selection of Grants. (1) The criteria for selection of applications for funding shall be based on the appropriateness and quality of the following:

(a) Process for identifying potential students and estimated enrollment in the Energy Technology Engineering Career Pathway;

(b) An implementation plan, which includes:

1. Computer availability, **including hardware and software commonly used in related fields;**

2. Teacher availability and certification;

3. Elementary school integration;

4. Middle school **and high school** program;

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5. **Measures of student progress to be utilized;**

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6. Instructional space;

7. Student Recruitment Plan, **including recruitment of traditionally underserved populations;**

8. Business **and postsecondary** partners and other education **partnerships;** and

9. Narrative of budget and timeline;

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(c) Program evaluation to include annual graduate follow-up surveys;

(d) Level of individual **school and district** commitment for teacher professional

development; and

(e) Narrative of budget and **timeline**, including the efficient and effective use of proposed

grant funds and matching funds.

(2) An application shall be reviewed as follows:

(a) A team of evaluators shall review the applications; and

(b) The Kentucky Department of Education shall approve funding based upon the results

of the review. Consideration may be given to provide for geographic diversity and the

number of students to be served.

Section 3. Grant Allocations and Requirements. (1) The award size or range of grants

shall be determined by the Kentucky Department of Education.

(2) Allowable expenditures include:

(a) Laboratory equipment **and instructional materials** necessary for Project Lead the

Way instruction;

(b) Computers and computer upgrades;

(c) Computer software required by Project Lead the Way;

(d) Laptop computer for the instructor;

(e) Travel expenses and registration fees for school counselors to attend the required

Project Lead the Way counselors conference

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(f) Travel expenses and registration fees for teachers to attend the required Project Lead

the Way ~~summer teacher institutes~~;

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(g) Resources and professional development for integrating energy activities in the

curriculum; and

(h) Energy related instructional materials and equipment.

(3) State grant funds shall not be used to **maintain**, renovate or build facilities or pay

teacher salaries, but local district expenditures for these purposes may be included as

matching funds.

(4) Monitoring of awarded grants shall include the following:

(a) Fiscal reports submitted quarterly to the Department of Education; and

(b) Annual program evaluation report on the implementation plan that outlines the project

accomplishments related to the project need, objectives, and outcomes.